

Abstract

A piezoelectric actuator is proposed, for example for actuating a mechanical component, and has a multilayered structure of piezoelectric layers (2) with inner electrodes (3, 4) interspersed between them. The inner electrodes (3, 4) contact the outer electrodes (5, 6) on alternating sides and the regions between the outer electrodes (5, 6) are provided with a suitable insulation (7, 8). The insulation is a layer comprised of a band, for example an adhesive tape (7, 8), which covers over a predetermined region between the outer electrodes (5, 6). The adhesive tape (7, 8) is comprised of a precisely measured, prefabricated material and can be stuck, rolled, melted, vulcanized, or sintered in place in a bubble-free manner.

10 (Fig. 2)